```
control_2_th_63
                                                                          control_2_th_47 | control_2_th_55 | control_1_th_57 | control_3_th_49 | control_3_th_53 | control_3_th_59 | control_1_th_49 | control_3_th_17 | control_3_th_37 | control_2_th_35 | control_3_th_33 | control_3_th_37 | control_3_th_37 | control_3_th_37 | control_3_th_37 | control_3_th_37 | control_3_th_38 | control_3_th_38 | control_3_th_38 | control_3_th_38 | control_3_th_38 | control_3_th_39 | control_3_th
      control_2_th_31 <sup>4</sup>
                                                                                                                                                                                                                              control_1_th_25 | control_1_th_41 | control_1_th_41 | control_2_th_27 | control_3_th_21 | control_3_th_27 | control_3_th_45 | control_3_t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         control_1_th_3 | control_1_th_22 | control_1_th_54 | control_1_th_5 | control_4_th_11 | control_3_th_22 | control_3_th_19 | control_3_th_54 | control_1_4_th_27 | control_1_th_21 | control_1_th_51 | control_1_0_th_57 |
                                                                            control_2_th_24 | control_2_th_40 | control_2_th_48 | control_2_th_53 | control_2_th_53 | control_2_th_53 | control_2_th_51 | control_2_th
control_anci|la_2_th_60| control_3_th_56| control_3_th_56| control_3_th_48| control_3_th_4
                                                                                                                                                                                                                                                                                                                                                                             control_2_th_16 control_3_th_20 control_4_th_42 control_2_th_50
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      control_ancilla_3_th_62 control_ancilla_4_th_41 control_3_th_56 control_3_th_
control_ancilla_1_th_32<del>|control_ancilla_3_th_26_control_3_th_45_| control_3_th_45_| control_3_th_26_control_3_th_26_control_3_th_26_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3_th_48_control_3</del>
  ontrol_ancilla_1_th_48control/ancilla_3_th_34control/ancilla_1_th_24control/ancilla_2_th_20control_ancilla_4/th_55control_ancilla_3_th_54 control_4_th_40 control_4_th_60 control_5_th_42 /
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              \frac{\cosh^2 - \cosh^2 - \cosh^
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    control_4_th_58 | control_3_th_28 | control_5_th_48 | control_4_th_10 |
  ontrol ancilla 3 th 60 control ancilla 4 th 42 control ancilla 3 th 58 control ancilla 3 th 10 / control 8 th 56 control ancilla 2 th 52 control ancilla 3 th 22 control 5 th 26 | control 4 th 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    control 5 th 24 / control 5 th 40 | control 4 th 26 | control 5 th 50 | control 5 th
                                                                                                                                                                                                                                control_8_th_25__flowfitrol/_and itla_4_th_57__tontrol_and itla_4_th_57__tontrol_and itla_4_th_35__tontrol_4_th_35__tontrol_4_th_35__tontrol_4_th_35__tontrol_4_th_35__tontrol_4_th_35__tontrol_4_th_35__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4_th_36__tontrol_4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      control 1/2 th 2/48 1/2 control 5 th 8 | control 5 th 8 | control 5 th 16 | control 5 th 32 | control 4 th 32 | control 4 th 32 | control 4 th 34 | control 4 th 34 | control 4 th 35 | control 4 th 35 | control 5 th 24 | control 5 th 32 | control 5 th 34 | control 5 th 34 | control 5 th 34 | control 5 th 35 | control 5 th 36 | control 5 th 37 | control 5 th 38 | control 5 th 39 | control 5 th 30 | control 
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